NRO & USAF REVIEWS COMPLETED

## A. RELEVANT BACKGROUND

- 1. The CORORA Program was conceived as a practical first step toward solving one of the most pressing problems of the intelligence community photographic search of the entire Seviet Union. It began with a conservative design, but has been progressively improved to a point of extraordinary performance. It is a model of how to conceive, develop and operate both promptly and sconomically a complete technical collection system focused on genuine intelligence requirements.
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  always been and always will be done by contractors. The

  The CORONA program has relied heavily on

  contractor initiative and responsibility from the beginning.

  Daily coordination of these contractors was supplied by the

  at SSD; a group of about ten semi-technical

  Air Force officers in Los Angeles. It is supported by an

  equally small

  The real program direction for this team was

  supplied for several years by Mr. Bissell and General Ritland.

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This leadership later gave way to Configuration

Control Board which meets each mouth to review payload modifications. The line of program responsibility ran NRO eriginally from Colonel Battle Bissell and Ritland, 25X1 later to Bissell and Charyk, and most recently to McMillan.

It does appear that Scoville and I failed to recognize the need and/or opportunity to play an active role in the management of COROMA. To date, General Greer has not been involved, since Colonel Battle felt that his line of responsibility ran straight to the

## B. McMILIAN'S PROPOSAL

3. McMillan's second proposal for CORONA management is clearer than the first, but lands on essentially the same square. His basic aim is:

"To establish a single point of authority within to which he can assign full responsibility for achieving consistently successful results that require the maximum potential of the present system."

He proposes two basic steps:

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a. Assign the full responsibilit	y for CORONA
to General Greer in Program A.	
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b. Transfer residual	over the 25X1
camera payload and recovery system to	General Greer.
This is certainly one way to go about the	problem. This
particular solution obviously pleases the	Air Force very
much, as it consolidates their monopoly of	gatellite
recommaissance. However, I am inclined to	examine his
solution on its merits, and the question b	efore us is
essentially simple:	
"Will COROMA fare better by subor	dinating
Colonel Worthington's small group	to
General Greer and eliminating	25X1
over the payload contractors?"	
4. General Greer is himself an able to	echnical officer,
who has a direct dine of responsibility to	McMillan. He
has a staff of	NR
in Program A, of whom have a similar	ar relationship to O25X1
McMillan; the remainder are detailed to Gr	eer by SSD.

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for the following

As Program Director A, General Greer is now responsible

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ARGON, weather satellites and advanced planning. His staff is organized with individual project offices which carry the principle responsibility for these programs.

- 5. If McHillan's CORONA proposal were accepted,
  Colonel Worthington's group would be transferred from SSD
  to Greer and take its place with the other project offices.
  There is no indication that Greer has significant resources
  in his small staff which can be diverted to Worthington's
  effort. In view of his other program responsibilities, it
  would be quite unrealistic to assume that Greer himself
  will be able to spend much time on CORONA. The net effort
  of such a change would be to clarify the CORONA line of
  command, which is very important in McHillan's mind.
  However, it would appear that a fraction of Greer's time
  and essentially the same SSD group,
  is hardly the "single point of authority" to ensure that
  CORONA is a consistent success and finds a logical successor.
- 6. One must next try to estimate the chances that Colonel Worthington's group under General Greer can actually do the job properly. We have only a small number of facts on which to base a judgment:

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deal or a skill

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- b. Essentially the same group was responsible for all the SANOS vehicles. The consistent failure of the SSD and Program A to make SANOS reliable makes me question whether they can in fact contribute to the "daily health" of CORONA.
- c. You will recall the CORONA Improvement
  Program developed by Colonel Worthington's group
  this past September. As we now know, their first
  solo effort at improving CORONA was a classical
  blunder.
- d. The current troubles with EURAL launch
  failures, and the prolonged delay in J checkouts
  are occurring during a period when Colonel Worthington
  is running the program without significant help

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To be sure, these are only partial indications of the capabilities of Greer and Worthington, and perhaps they do not give a fair picture. However, it is the only

evidence we have upon which to base a major decision. In my view, it would be most unwise to trust the "daily health" of CORONA to a Greer/Worthington combination.

7. Hext let us examine McMillan's proposal to see what effect turning the camera and recovery vehicle contractors ower to the Air Force might have. On the positive side, it will unite the contracting and technical direction function. Air Force teams have already visited ITEK and provided them with detailed "recommendations" for improved performance. We are told that the sense of these changes is to regularize the procurement, emphasizing multiple documentation and extensive testing. The latter is important for a program with reliability trouble. However, it is not the CORONA cameras that have been failing, and I believe that one is actually seeing the recrientation of ITEK into a standard Air Force procurement pattern for the sake of standardination. We have good reason to believe that one pays a substantial dollar and time price for converting to standard Air Force procedures. Undoubtedly, one sacrifices substantial flexability and possibly contractor initiative and responsibility. which have been one of the program's prime assets to date.

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8. All told, the McMillan proposal is not a promising
me. Its main effect is to subordinate existing management
lements to a man with whom he has a command relationship.
t provides no basis for confidence that the daily health
of CORONA itself will continue or improve. It provides no
dequate base for originating improvements or fellow-on
pearch systems. It would substitute orthodox Air Force
procurement procedures for
contractors. Of course, his proposal is enormously pleasing
te the uniformed Air Force, as it completes their monopoly
of all satellite reconnaissance. It also
from the only program which could reasonably be used as a
mage for extension of its own satellite contribution as
opposed to breaking into a closed market at some future time.
Sowever, the most important aspect of this whole proposal
is that it establishes a sole source for satellite system
with an organization that has not been particularly successful.
am therefore strongly motivated to find another solution.

## C. PROGRAM E PROPOSAL

9. One can construct an alternate proposal by simply implementing the McMillan basic aim in the most straight-forward way:

CREATE AN MRO PROGRAM E WHICH WOULD ACT AS
A SINGLE POINT OF AUTHORITY VITHIN THE MRO
TO WHICH WOULD BE ASSIGNED THE FULL RESPONSEBILITY FOR THE PRESENT CORONA, ITS IMPROVEMENTS,
AND ITS SUCCESSORS.

This would provide a full time management for COROMA reporting directly to the DNRO, rather than through intermediaries concerned with other programs. The way in which MRO would then be organized is shown below. A prominent position for COROMA within the NRO is consistent with its overriding importance to the intelligence community.

its overriding importance to the intelligence community.

And is certainly far more justified than the

Program A Program E Program C Program B Program D

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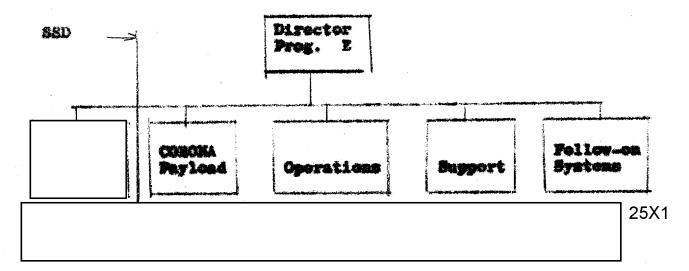
10. The creation of a satellite program directed primarily toward search systems would provide MRO with a much needed

be responsible for improving the present system and enthusiastic development of a successor in addition to caring for the daily health of existing systems. The Director of Program E would budget for and expend all of the funds necessary to fly the current model and develop follow-ons. His budget would also contain a line item for research in this field, which he could spend directly or delegate to appropriate supporting organisations.

11. A second source for satellite procure	ment and	
development would have a healthy effect on all	organizatio	
involved; Air Force,	Creative	25X1
competition could then work to the advantage of	of the	
intelligence community, and contractors would	ence again	
have an alternate outlet for new concepts.		
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12. We have sized Program E and feel that	it can be	
run with no more than people reporting	directly to	NR
the Director of Program E. Colonel Worthingto	m's	O25X1
would stay organizationally	within SSD	_
but would report to and support Program Direct	tor E. The	
probable breakdown of such a program is shown	below:	

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- Palo Alto so as to be colocated with the Agena Production Center, the payload integration and test facility (Skunk Works), and satellite operations center. An alternate siting would be Los Angeles. However, since the closest watch needs to be kept on Lockheed, the Program Director and his staff should probably operate from Palo Alto. This siting also provides a more independent base for development of new systems following the Livermore/Los Alamos analogy.
- 14. The last question is who should assume the basic responsibility for staffing and managing Program E. I

we now do for OXCART and the U-2s through Program B. However, I would prefer a completely separate Air Force organization

for COBONA	to the Greer subor	dination plan now being
advanced.		the program would emsure
centimustic	m of the same cont	ractor relationships which
have carrie	ed the program to i	ts present state. It would
also guara:	ites continued resp	consiveness to intelligence
roqui remen	is in this crucial	area. It would provide the
base from		in the satellite area could
develop.		

15. Before we assume such a responsibility, we must assure ourselves that we can quickly staff and operate Program E with the type of technical and support personnel which will ensure the program's immediate and long range

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MICCOSS. We also have a substantial reservoir of strong

administrative contracts and security people is OSA who could be thrown into the program quickly. The emsential link is the Program Director. I feel that John Parangosky is one of the better project engineers I have known and could handle

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government structure involved and is very highly regarded by all concerned. For this purpose, he could be made available on short notice and take charge in several weeks. For the long run, there is no doubt in my mind that our technical recruiting program is proving successful enough to staff the program indefinitely with top notch people.

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Certainly, we are in as strong a position now as we are likely to be for some time to shoulder such a responsibility. Without such as opportunity for active participation, our existing assets will disappear and we will find it impossible to recruit now men.

## D. SUMMARY OF FUBILI-MCMILLAN-WHEELON DISCUSSION OF CORONA MANAGEMENT

17. The second regular NHO meeting was focused almost exclusively on the COROMA management problem. Fubini, McHillan and I discussed the matter exhaustively for two hours on 19 December 1963. They began by urging strongly that we toward a follow-on system and leave daily health of the present system to General Greer.

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Hemilian stated that he was convinced that the best thing that could happen to COROMA would be to freeze it firmly for the next two years, but indicated that McCone and Wheelon would crucify him for making such a motion. I opined that the idea had a good deal of merit, at least until we had a good idea for a follow-on. Their view is that Greer is a military man "who knows how to carry out orders" and would see that COROMA was frozen. I suggested that if freezing was the proper course, Greer was not unique in this respect.

18. We then returned to the invention and development of follow-on COHOMAs in a separate organization. We agreed that we need a group other than Worthington's to worry about the future. We also agreed that in three years, Greer had come up with no good ideas. However, I questioned the wisdom of splitting the present program from its follow-on by having Greer do one.

I reminded them that Purcell had recommended upgrading the present model by peaking its performance, rather than going to a new design. They finally agreed that to place the COROMA follow-on in a completely different organization would prejudge the issue and favor a new vehicle - or no change at all.

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19. I then gave them my own proposal for creating a separate group (Program E) to be focused on the daily health

of the propent system, successive upgrading of its performance. and development of follow-on systems. This single point of responsibility within the NRO is precisely what McKillan had wanted. However, rather than subordinate it to a man with many other programs, it would place it in a primary role, commensurate with its importance to the intelligence community. It would also provide an independent center for research and development directed toward the continuing search problem, rather than putting it in competition with the high resolution spotting systems and other Air Force needs. Pubini was visibly impressed by each of these arguments. Given an even start, I believe that he might cast his vote for the Program E plan. 25X1 McMillan said very little except to to man Program E. I got the definite feeling that his hands were tied to the Greer solution, if not by conviction, by his own provious proposals, and he will be very hard to move. However, I came away from my two hour discussion with a rising conviction that a separate NRO program for CORONA and its successors is far preferable to the Greer subordination proposal,